WA-26-1040

MEMORANDUM

February 18, 1975

State of Washington Department of Ecology



T0:

VERN MEINZ

FROM:

HANS CREGG

SUBJECT:

Toledo STP LALCON

On December 11, 1974, effluent grab samples were taken at the Toledo sewage treatment lagoon. No influent samples could be taken, because the sampling area proved to be inaccessible.

Laboratory results show low coliform levels--total < 20, fecal < 10--and a BOD of 47 ppm. Total solids are 269 ppm of which 152 ppm can be attributed to T.N.V.S.

STP Survey Report Form

Efficiency Study

City Toledo 1	Plant Type la	goon Por	Served_	D	esign_	
Receiving Water		Perenni	.al	Intermittent	 арастту	
Date Dec 11,1974 Surv	vey Period		Survey P	ersonnel HA	15 CREBL	
Comp. Sampling Free	quency	Sampl	ing Alequ	ot		
Weather Conditions	(24 hr)	Are f	acilities	provided for	r complet	te by-
pass of raw sewage?	Yes	No/Frequ	ency of b	ypass	·	
Reason for bypass		Is by	pass chlo	rinated?	Yes	No
Was DOE Notified?	Dischar	ge - Inter	mittent_	Contin	uous	
		Operation		,		
Total flow		_ How mea	sured			
Maximum flow		_ Time of	Max			
Minimum flow						
Pre Cl ₂	#/day	_ Post Cl	2		#/	/day
		.				
	**************************************	d Results				
	Infl	uent		Eff]	luent	
Determinations	Max. Min.	Mean	Median		Mean	Mediar
Temp °C pH (Units)				9.0 9.0 7.0 6.8		9.0 7.0
Conductivity				350 300		300
(μmhos/cm²) Settleable			-	NEG NEG	NEG	NEG
Solids (mls/1)				NEG NEG	MLG	NLG
	Laboratory Re	sults on C	omposites			
	Influent	Efflu	ent	% Reducti	.on	
Laboratory No.	40000000000000000000000000000000000000	74-48	38_			
5-Day BOD ppm	C		7			
COD ppm T.S. ppm		26		•		
T.N.V.S. ppm		15	52			
T.S.S. ppm N.V.S.S. ppm			<u>)2</u>	***		
pH (Units)				(1		
Conductivity (µmhos/cm²) Turbidity(JTU's)	Contraction and the contraction of the contraction	37	<u>'0</u>			

Laboratory Bacteriological Results

Lab No.	Sampling Time	Total Coliform	lonies/100 m Fecal Coliform	l (MF) Fecal Strep	Cl ₂ Residual
74-4839	1000	< 20	< 10		.2 1.0
74-4840	1100	< 20	< 10		.2 1.0
74-4841	1300	< 20	< 10		.15 .75
74-4842	1400	< 20	< 10		.2 .75

Additional Laboratory Results

NO3-N ppm -	.06	
NO2-N ppm -	N.D.	
NH3-N ppm -	10	
T. Kjeldahl-N ppm -	13.4	
O-PO4-P ppm -	2.80	
T-PO4-P ppm -	3.20	

Operator's Name Phone No.

Furnish a flow diagram with sequence and relative size and points of chlorination.

Type of Collection System

Combined Separate Both	Estimate flow contributed by surface or ground water (infiltration)
	MGD
Plant Loading Info	rmation
Annual average daily flow rate(mgd)	Peak flow rate(mgd)
Dry	Dry
Wet	Wet
COMMENTS:	

STATE OF WASHINGTON

DEPARTMENT OF ECOLOGY

WATER QUALITY LABORATORY

ORIGINAL TO:	
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COPIES TO:	
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LAB FILES	• •
LAB FILES	

Date 1-6.75

DATA SUMMARY

Source 101edo STP	-	Collected By AwM							
Date Collected 17-11-74						Goal,	Pro./Obj	•	
Log Number: 74-	4838	39	40	41	42				STORET
Station:	ert.	1000	1100	1300	1400				
рН	7.5								00403
Turbidity (JTU)	15.								00070
Conductivity (umhos/cm)@25c	370.								00095
COD	92.								00340
BOD (5 day)	47.								00310
Total Coliform (Col./100ml)		< 20	120	120	120				31504
Fecal Coliform (Col./100ml)		(10	(10	510	410				31616
NO3-N (Filtered)	0.06								00620
NO2-N (Filtered)	ND								00615
NH3-N (Unfiltered)	10.								00610
T. Kjeldahl-N (Unfiltered)	13.4								00625
O-PO4-P (Filtered)	2.80								00671
Total PhosP (Unfiltered)	3.20								00665
Total Solids	769.								00500
Total Non Vol. Solids	152.						·		
Total Suspended Solids	3 <i>2</i> .								00530
Total Sus. Non Vol. Solids	ND.								
Note: All results are in P Convert those marked	PM unlowith	ess ot a * to	herwis PPB (e spec PPM X	ified. 10 ³) pr:	ND is 'N ior to er	one Dete	cted" STORET	

Summary By type D. Roll